

ATU Recruitment

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Introduction to Business

- Arkansas Tech University - College of Business
- Located in Rothwell
- Contact: Dr. Loretta Cochran – Associate Professor of Management
- Offer dynamic academic programs that enable our graduates to add value at all levels of employment.



Introduction to Application

- The College of Business wants a webpage that they can use at College Fairs
- The webpage will contain information about the undergraduate degrees offered at ATU.
- The webpage will gather contact information from the applicants upon selection of major.
- The contact information gathered will be used to auto-fill the application on ATU's application page.

Problem Being Solved

- Currently, incoming freshmen select the wrong major when applying.
- The College of Business would like to have the application information gathered on their webpage auto-fill when the applicant decides to apply to ATU.
- Wanted to be able to see who was interested in certain majors

Planning

- Rated our strengths and weaknesses in a document
- Separated the work by our strengths and weaknesses
- Researched how to add certain functionalities such as the auto-fill
- Researched free web hosting services, security software, and other services to keep system running.



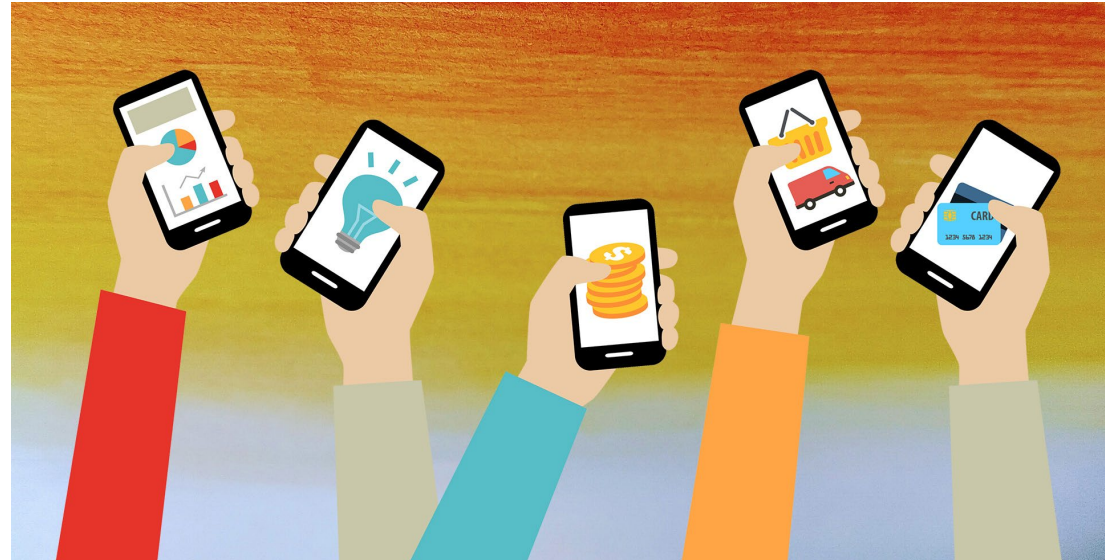
Functional Requirements

- Majors
 - The system will allow high school or transfer students to view current majors offered by the College of Business
 - The system will allow the College of Business to update the existing majors
 - The system will allow the College of Business to add or drop majors
- Application
 - The system will auto-fill the application form for admissions
 - The system will allow the College of Business to know if the applicant is a high school graduate or transfer student
 - The system will record applicant information



Nonfunctional Requirements

- Operational
 - The system should run on mobile devices
- Performance
 - The system should support waves of students
 - The system should be updated with new major information every few years
- Security
 - No applicant can access other applicant's information
 - Only the College of Business can add, drop, or update majors
 - Access to the database should be restricted to certain employees for the College of Business



Implementation

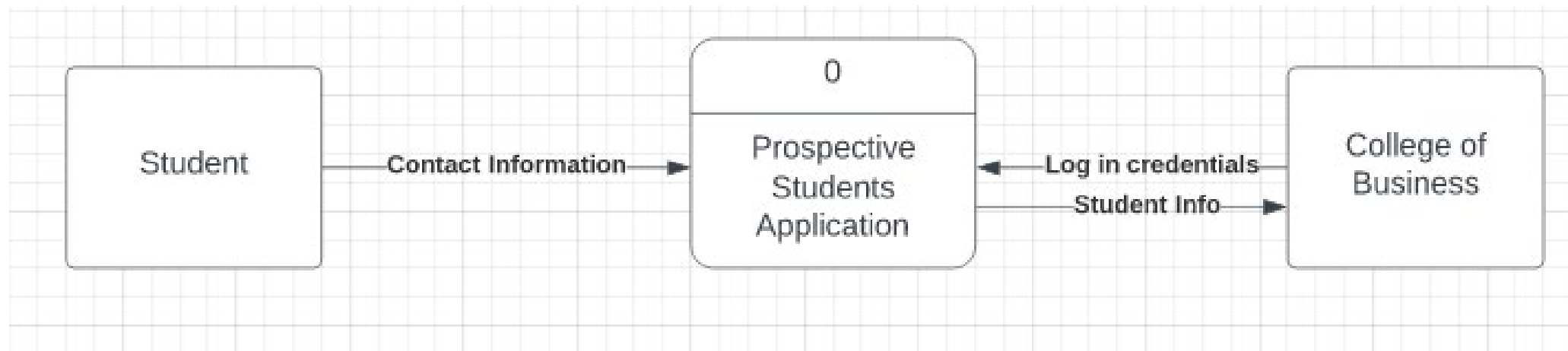
- Website:
 - Web Hosting - InfinityFree
 - HTML 5 – Used to structure the website.
 - CSS – Controls layout of the website.
 - JavaScript – Auto filling certain contact card information when hitting 'Appy Now' on various major cards
 - PHP – Connects database to website and sends e-mails automatically when the contact form is submitted.
- Database:
 - MySQL Relational Database Management System



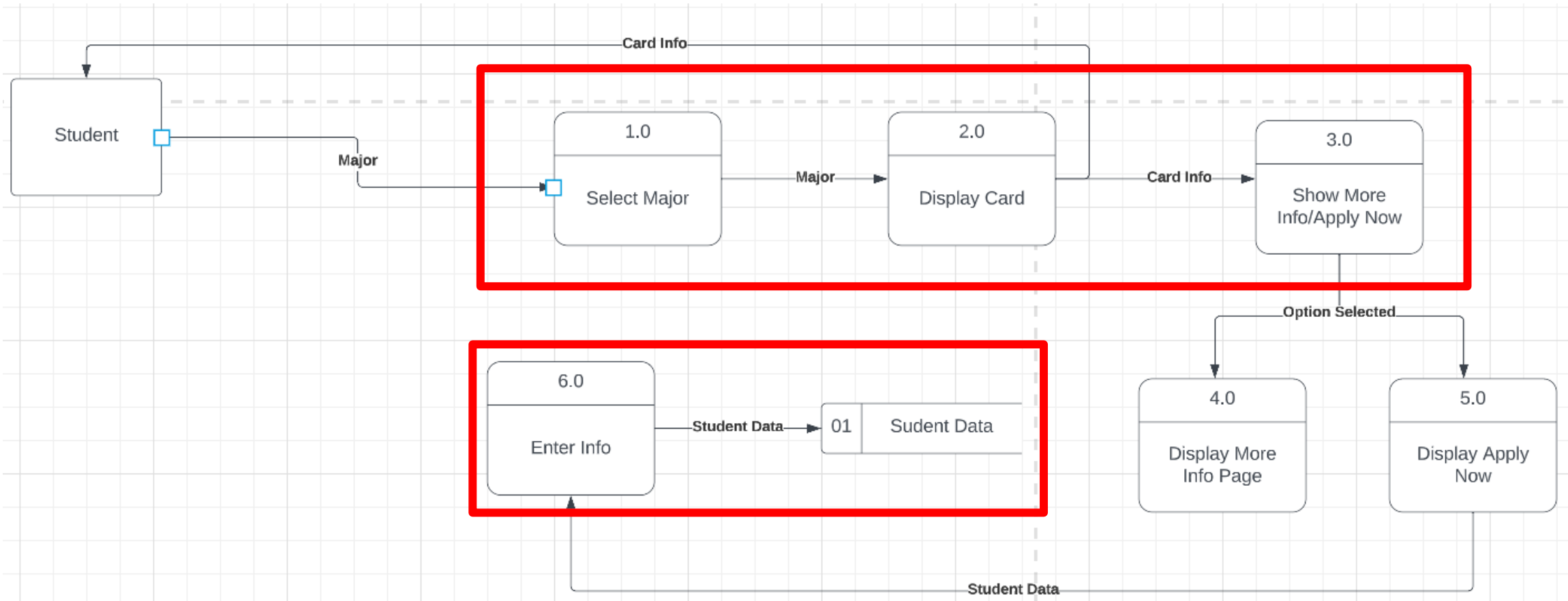
Use Case

- Preconditions
 - Applicant selects whether they are a high school or transfer student
 - All majors are up to date and offered
- Normal Course
 - Request learn more on major card
 - Open a more in-depth description of the selected major
 - Applicant can either select Apply Now or More Information
 - Applicant selects Apply Now: perform Contact Form use case
 - Applicant selects More Information: perform Contact Us use case
- Postconditions
 - Display major information
 - Applicant can choose Apply Now or More Information

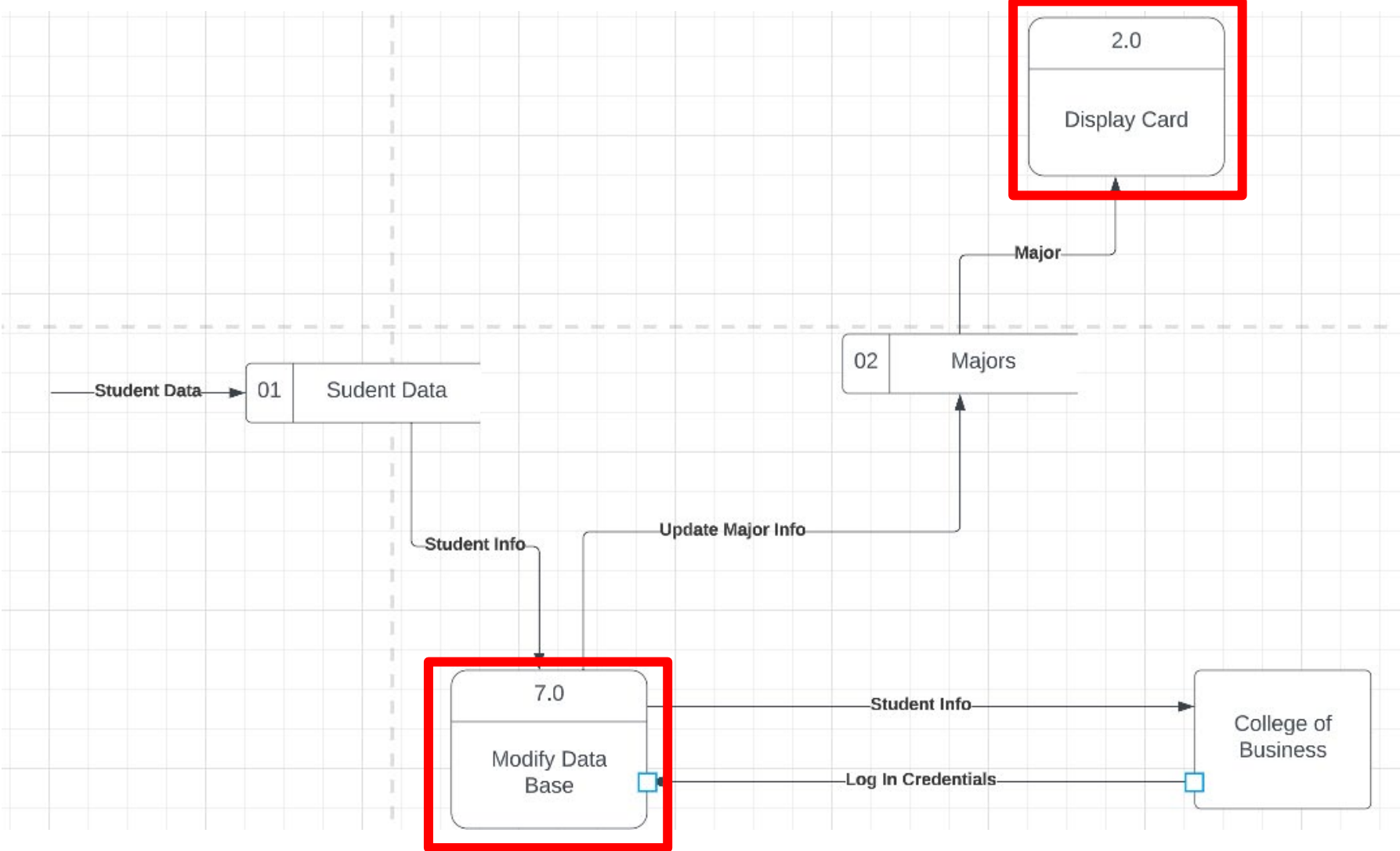
Context Level DFD



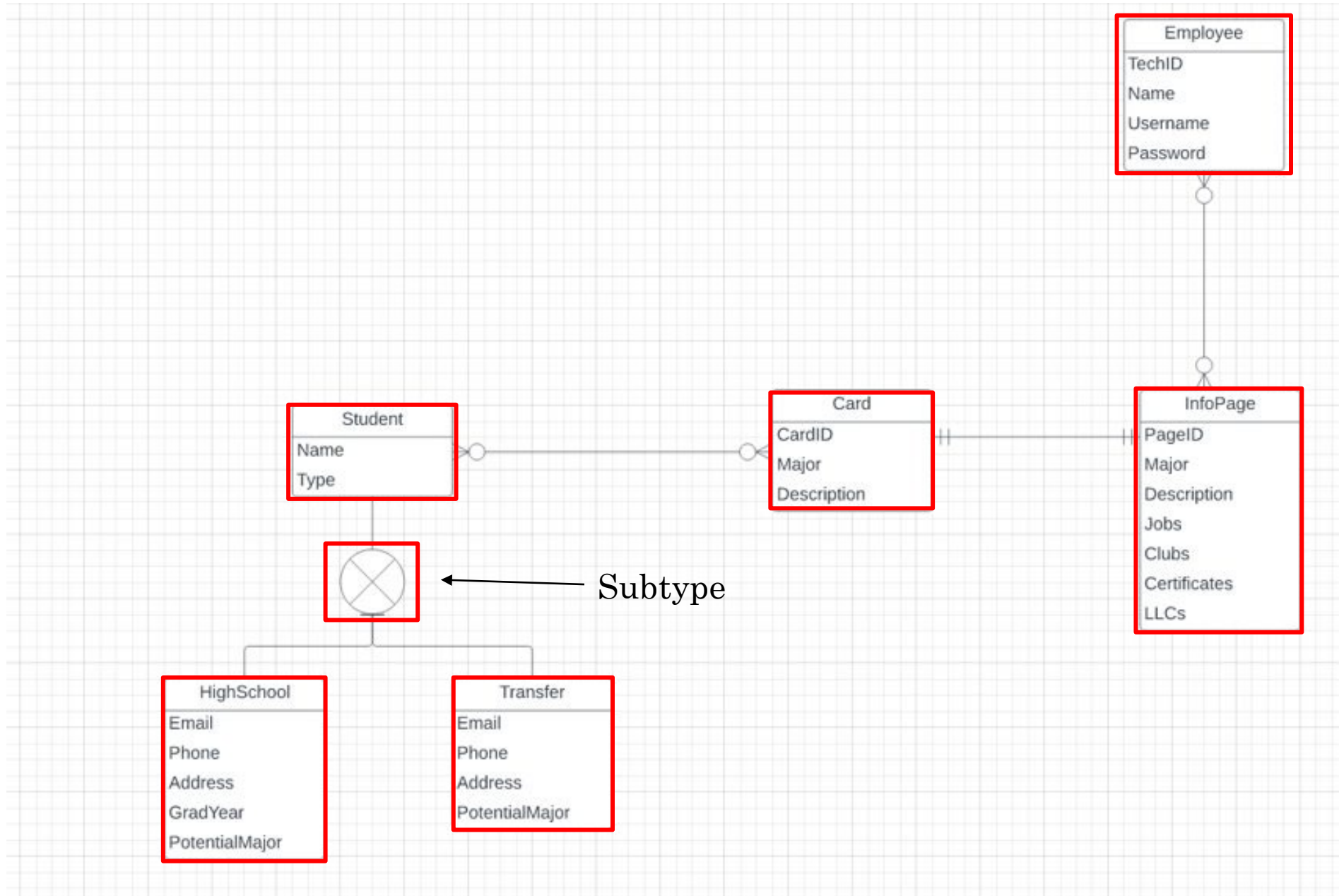
Level 0 DFD



Level 0 DFD Continued



ERD



Ethics

- Copyright:
 - The system will be handed off and implemented into ATU's system, at which point will fall under their copyright.
- Liabilities:
 - Once the website is handed over to ATU, OIS would be responsible/accountable for maintaining and running the website.

Security

- Cyberattack:
 - If the system were to be attacked, ATU would be liable.
 - We plan to add data encryption to the system and have researched some software for this:
 - Heimdal: email security, endpoint detection and response, and extended detection and response.
 - Resolver: incident management, security risk management, and other services.



Demo

Future Features

- Autofill major on application page
- Access information after logging in
 - Seeing student information
 - Being able add, drop, or edit majors
- Implement web analytics software (Ex. Google Analytics)
- Email the College of Business when someone submits their contact information.
- Send a confirmation email when someone submits their information.



Thank You
Any Questions?